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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,330	07/06/2006	Saila Karvinen	0696-0245PUS1	2708
	7590 11/16/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 3/4 22040 0747	QIAN, YUN		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Applic	cation No.	Applicant(s)					
Office Action Summary		5,330	KARVINEN, SAIL	KARVINEN, SAILA				
		ner	Art Unit					
	YUN	QIAN	1793					
The MAILING DATE of this com Period for Reply	munication appears on	the cover sheet with	the correspondence ac	ddress				
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the proafter SIX (6) MONTHS from the mailing date of this - If NO period for reply is specified above, the maxin - Failure to reply within the set or extended period for Any reply received by the Office later than three mearned patent term adjustment. See 37 CFR 1.70	HE MAILING DATE OF risions of 37 CFR 1.136(a). In no communication. It is not that the statutory period will apply a reply will, by statute, cause the paths after the mailing date of the	THIS COMMUNICA o event, however, may a rep nd will expire SIX (6) MONTH application to become ABAI	ATION. ly be timely filed IS from the mailing date of this of NDONED (35 U.S.C. § 133).	·				
Status								
1) Responsive to communication(s	s) filed on 23 March 20	109						
2a) ☐ This action is FINAL .	2b) ☐ This action							
' <u>-</u>	/ —		s, prosecution as to the	e merits is				
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-10</u> is/are pending in	the application.							
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	_							
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected	tn							
8) Claim(s) 1-10 are subject to res		requirement						
· · · · · · · · · · · · · · · · · · ·		10401101111						
Application Papers								
9)☐ The specification is objected to l	•							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is object	ed to by the Examiner	. Note the attached (Office Action or form P	TO-152.				
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a c a) All b) Some * c) None 1. Certified copies of the pri 2. Certified copies of the pri 3. Copies of the certified co application from the Inter * See the attached detailed Office	of: ority documents have ority documents have bies of the priority documents have	been received. been received in Appunents have been re Rule 17.2(a)).	olication No eceived in this National	l Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Rev 3) Information Disclosure Statement(s) (PTO/SE Paper No(s)/Mail Date		Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application					

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-9, drawn to a method for treating a surface with TiO₂.

Group II, claim 10, drawn to the use of nanocrystalline TiO₂.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claim 1 is obvious over Chopin et al. (US 6,362,121) in view of Murjahn et al. (US 6,352,581), as Chopin et al discloses the special technical feature linking the inventions such as forming a photocatalytic nanocrystalline TiO₂ layer on glass surface. The size of the crystals is 5-70 nm (abstract, col.2, line 27).

Although Chopin et al. does not explicitly teach the solution becoming thixotropic as per applicant claim 1, Murjahn et al a transparent coating composition based on silicate used for reducing the soiling tendency of facades. The composition is thixotropic, which implies that application to the substrate can be made without splashing or runs (Col. 2, lines 9-14).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Chopin et al. and Murjahn et al. to obtain the invention as specified in the claim 1, motivated by the fact that the it reduces the soiling tendency of facades (col.1, lines 5-8).

Accordingly, the special technical feature linking the inventions does not provide a contribution over the prior art, and no single general inventive exists. Therefore, restriction is appropriate.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are

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subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

A telephone call was made to Raymond Stewart on October 29, 2009 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUN QIAN whose telephone number is (571)270-5834. The examiner can normally be reached on Monday-Thursday, 10:00am -4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J.A. LORENGO/ Supervisory Patent Examiner, Art Unit 1793 /YUN QIAN/ Examiner, Art Unit 1793